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TITLE: STUDY OF POST-SEPARATION HIV-POSITIVE SERVICEMEN
LOST TO FOLLOW-UP

PRINCIPAL INVESTIGATOR: William F. Page

CONTRACTING ORGANIZATION: National Academy of Sciences
National Research Council
2101 Constitution Avenue
Washington, DC 20418

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13. ABSTRACT (Maximum 200 words) Data updating clinical and vital status information were obtained during the past year of the study of HIV-positive service members lost to follow-up (LTF), and details are provided in report. The follow-up data reported on last year were given to the Army in December 1993; at that time, an additional batch of service members lost-to-follow-up was delivered to MFUA. Just prior to the writing of this report, another data file of lost to follow-up service members was sent to the MFUA; a data file was also received with individuals known to be deceased, but for whom no death certificate has been obtained. The MFUA will attempt to obtain death certificates for this latter group of individuals known to be dead. This report will refer to data and follow-up for the group reported on last year as "Batch4"; data received in January 1994 will be referred to as "Batch 5."					
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**PROGRESS REPORT TO DEPARTMENT OF THE ARMY, U.S. ARMY MEDICAL
RESEARCH AND DEVELOPMENT COMMAND**

October 27, 1994

Study of Post-Separation HIV-Positive Service Members

Lost to Follow-up

(U.S. Army Medical R&D contract DAMD17-91-Z-1040)

Data updating clinical and vital status information were obtained during the past year of the study of HIV-positive service members lost to follow-up (LTF), and details are provided below. This is the first year of no-cost extension funding for the project; an outline of projected extension activities is also given.

The follow-up data reported on last year were given to the Army in December 1993; at that time, an additional batch of service members lost-to-follow-up was delivered to MFUA. Just prior to the writing of this report, another data file of lost to follow-up service members was sent to the MFUA; a data file was also received with individuals known to be deceased, but for whom no death certificate has been obtained. The MFUA will attempt to obtain death certificates for this latter group of individuals known to be dead.

This report will refer to data and follow-up for the group reported on last year as "Batch 4;" data received in January 1994 will be referred to as "Batch 5." Work has not started on data just received ("Batch 6" and the file with those identified as deceased), and no further discussion of these groups will be included in this report.

RECORDS FOLLOW-UP: MORTALITY

To determine if study subjects in Batch 5 were deceased, the National Death Index, and the VA Beneficiary Identification and Records Locator Sub-System (BIRLS) were

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checked. The number of deaths (for Batch 5) by year of death and source of mortality information is shown in Table 1. These methods for determining mortality have been described in the previous report.

NATIONAL DEATH INDEX (NDI)

A resubmission to the National Death Index (NDI) occurred on 28 September 1994, and covered the years 1985 to 1993 for mortality searches. The 569 study subjects were compared by computer for exact Social Security Number (SSN), name and date of birth match, with decreasing strictness for matching criteria as: SSN and full name; SSN and last name; seven digits on SSN, full name and date of birth; and finally hand screening. A total of 18 death matches were identified through the NDI; 15 were exact matches (SSN, date of birth, name) and 3 matched on SSN and full name. NDI may not be the most useful overall method for determining deaths, particularly since the majority of deaths in this group occurred in 1994, and the current year is not available for NDI searches.

TARGET ACCESS TO BIRLS

Another method of determining vital status of veterans is through the VA Beneficiary Identification and Records Locator Sub-System (BIRLS), with a method called TARGET, allowing for interactive, individual access of information on veterans who have filed for any type of claim through the VA. Individuals in Batch 5 were submitted to TARGET in January, April and July of this year. At that time, of the 569 eligible subjects, 558 were found in BIRLS, 10 records indicated a "sensitive" status, and 1 record had no status. From the TARGET searches, a total of 52 Batch 5 study subjects were identified as deceased through BIRLS.

Deaths identified from NDI from 1985 to 1993 were compared to the TARGET results. Of the 18 deaths found through NDI, only two were not already located through

the BIRLS system. As TARGETing is potentially more efficient, allows for more current determination of vital status, and can be repeated at regular intervals, this is the preferred method of determining vital status. However, if obtaining death certificates from the states is facilitated by the NDI mechanism, then for deaths which have occurred in the past, where no death certificate has been obtained, the NDI matching may also be beneficial. This has yet to be done.

For those determined through BIRLS to be deceased, but with no death certificate in the claims folder, repeat requests for folders will be made. Because deaths may be identified through TARGET more quickly than death certificates appear in folders, repeat requests will assist with lag time.

CLAIMS FOLDERS

Folders were requested for deceased individuals to obtain death certificates. Requesting folders to obtain death certificates will be the primary activity for the data file with names of those known to be deceased, received recently by MFUA.

For those who were found to be deceased in Batch 5, the folder was requested to obtain a copy of the death certificate. Of the 52 identified as deceased through BIRLS, 45 folders were available (83%); of those deceased with folders available, 16 (35%) death certificates were obtained.

DEATH CERTIFICATE CODING

Death certificates continue to be coded by a certified nosologist, where a cause of death is available. As additional certificates are received, they are forwarded to WRAIR, along with the coded data on diskette.

RECORDS FOLLOW-UP: MORBIDITY

Morbidity information was obtained from data on Batch 5 VA hospitalizations through matches of SSN. Data were not requested from DoD service branch hospitals as was done for Batch 4, because IPDS data are available to the WRAIR researchers to check, and the Navy and Air Force data obtained were not extensive enough to warrant further searches of those databases.

The same list of "critical diagnoses" (Table 2) was used as in the previous report, to be consistent with the Army diagnostic codes. In evaluating the hospitalization occurrences, the information obtained included only hospitalizations after the date last seen by the Army.

PATIENT TREATMENT FILE (PTF)

Information on hospitalizations occurring within the VA system was obtained from the PTF data between 1985 and April 1994, because the data were requested in April, 1994. Of the 569 in the study, 200 (35%) had at least one hospitalization in a VA facility at any time. Approximately 34% of these hospitalizations (n=68) were for a critical diagnosis after the date last seen. This represents additional information from PTF which can be used for staging on approximately 12% of the total Batch 5 study population.

CLAIMS FOLDERS

Following discussions with WRAIR collaborators, folders were not requested for Batch 5 for the purpose of obtaining medical information because this was determined not to be a useful source of staging information for the period after the date the patient was last seen by the Army.

MEDICAL RECORDS FROM VA HOSPITALIZATIONS

Medical records of PTF hospitalizations after the date last seen for Stage 6 and cancer diagnoses were requested in this study year. The records were requested for Batch 4 individuals, and are currently being requested for Batch 5. Medical records for 85 individuals in Batch 4 were requested; records for 66 were received. Requests for records still outstanding have been made. As data are available, the Army will be sent updated data. The medical records for Stage 6 or neoplasm diagnoses were abstracted, representing a total of 91 diagnoses, which includes multiple diagnoses for some individuals. For approximately 30% (37 of 91 diagnoses) of the total Stage 6 or neoplasm diagnoses, the medical record indicated that there was a previous history of admission for the same diagnosis. That is, this was not, in fact, the first occurrence of a staging or cancer diagnosis. In addition, the process of requesting and obtaining information relevant to a specific diagnosis was both cumbersome and complicated. Medical records are available from local VA medical centers by admission date, therefore, information from the specific admission date for the diagnosis of interest must be requested. Even when requests were made for information from these specific dates, the information received varied greatly by medical center. For example, some hospitals sent only the admission of interest, some sent the whole patient history and some sent information on several admission dates, but not the one of interest. Also, the information provided in the medical summaries and lab reports varied not only by place of admission, but by different attending medical personnel. Thus, the quality of information received was not consistent, and should be used cautiously in determining patient staging progress. Since the initial purpose for abstracting these medical records was to obtain additional information relevant to the initial stage 6 diagnosis for an individual, other mechanisms may need to be considered for this purpose. Some findings relevant to this process are given in Table 3 flow chart.

DATA MANAGEMENT

Data management continues as previously described. An ascii file with Stage 6 and cancer data for Batch 4 and follow-up data for Batch 5 will be sent to Army researchers by the beginning of November. A spreadsheet with pertinent Stage 6 and cancer diagnoses is attached (Table 4).

DATA ANALYSIS AND DISSEMINATION

The last data analysis will be completed by the end of the no-cost extension period. There are no plans to disseminate findings from the preliminary analysis at this time.

FUTURE PLANS FOR THE STUDY EXTENSION PERIOD

During the second year of the study extension period (September 1994-September 1995), activities will continue as in this year, and as described below.

ON-GOING FOLLOW-UP

In the last year of the study period, the MFUA will continue to follow the cohort members using methods described in this and the previous report. Medical record data will be abstracted for Batch 5; TARGET, PTF and medical record data will be processed for Batch 6. Death certificates will be obtained when possible for those known to be dead in the Army data file recently received, but for whom the Army has no death certificate. TARGETing will need to be done for this group to determine claim folder location. Once the folder is located, it can be requested and a copy of the death certificate may be obtained. If necessary, the individual states will be contacted for death certificates. All death certificates will be coded by the same nosologist for cause of death.

PROJECTED TIMELINE FOR EXTENDED STUDY PERIOD

1994

November TARGET cohort members with unknown vital status
 Re-submit cohort for PTF matches

December Obtain last batch of LTF from Army

1995

January Final TARGET of cohort members with unknown vital status

March Final inclusion of data from all sources

April Begin data analysis and final report writing

October 26 Submit final report to Army contractors

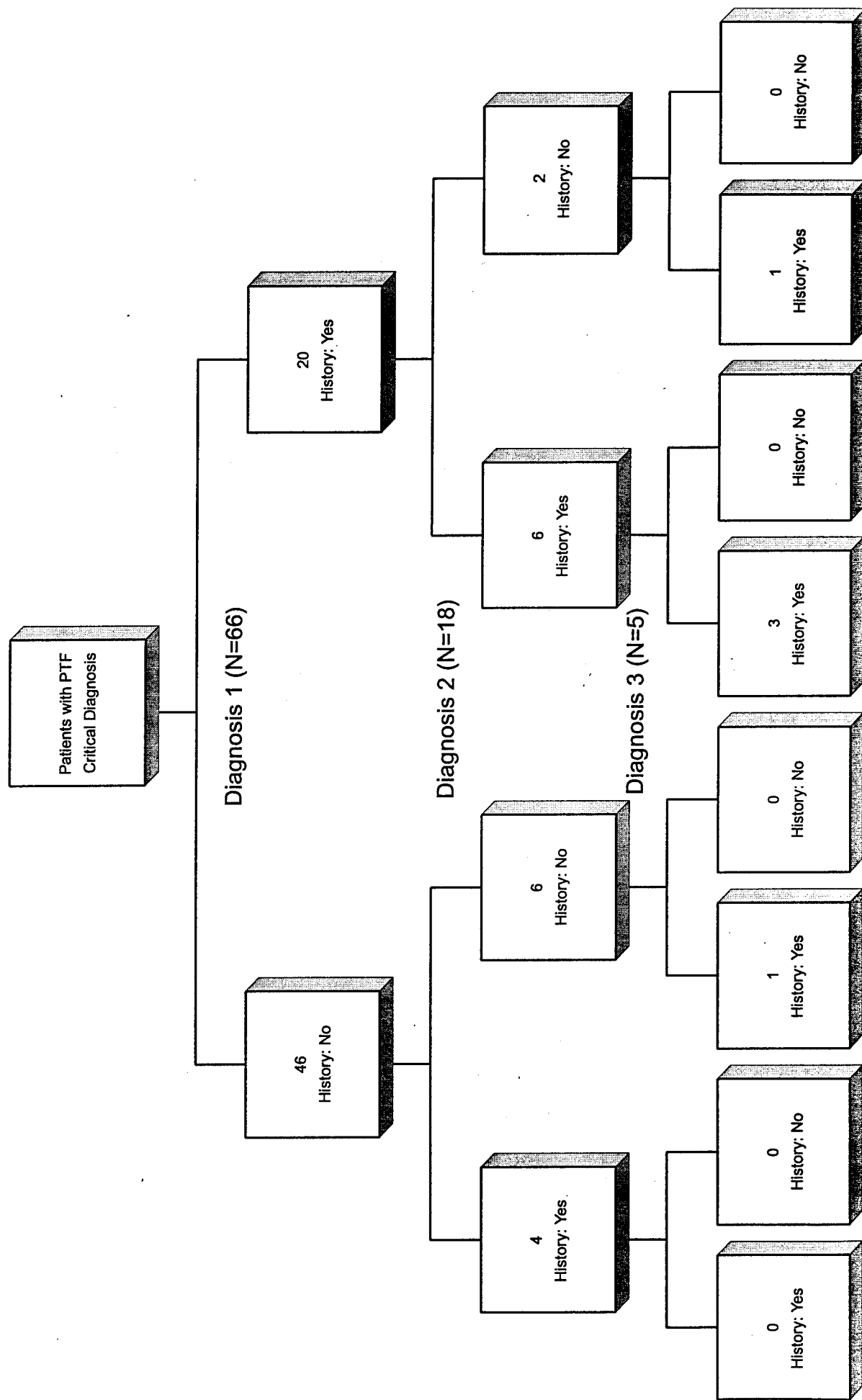
TABLE 1. NUMBER OF DEATHS BY YEAR AND SOURCE OF MORTALITY

	TARGET	NDI	TOTAL
1992	1		1
1993	16	2	18
1994	35		35
TOTAL	52	2	54

TABLE 2.**CRITICAL DIAGNOSTIC CODES UTILIZED FOR STAGES 5 AND 6**

CODE	NAME	STAGE
112.0	Oral candidiasis	5
007.2	Cryptosporidiosis, isosporidiosis	6
012-018	Extrapulmonary tuberculosis	6
031 (ALL)	Atypical mycobacteriosis	6
031.0	MAI	6
054 (ALL)	Herpes simplex	6
078.5	Cytomegalovirus	6
112.5	Esophageal candidiasis	6
115 (ALL)	Histoplasmosis	6
117.5	Cryptococcosis	6
117.9	Disseminated endemic mycosis	6
130 (ALL)	Toxoplasmosis	6
136.3	Pneumocystis carinii pneumonia	6

TABLE 3. PREVIOUS HISTORY (YES/NO) OF STAGE 6 DIAGNOSIS INDICATED
IN THE MEDICAL RECORD FOR INDIVIDUALS WITH CRITICAL DIAGNOSIS
IDENTIFIED IN PTF



**TABLE 4. FIRST OCCURRENCE OF STAGES 5, 6, AND NEOPLASM DIAGNOSES FROM PATIENT TREATMENT FILE;
DATE OF DEATH FROM TARGET AND NDI (* PATIENT HOSPITALIZED MORE RECENTLY WITH SAME DIAGNOSIS)**

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
1	May-89	1	12/92			
2	Oct-89	4				
3	May-92	2				
4	Jan-89	5				
5	Mar-88					
6	Aug-91	1				
7	Jun-90	4				202.83 - 8/90 *
7						202.80 - 10/90 *
8	Sep-92	2				
9	Jul-87	1				
10	May-90	3				
11	Sep-89	4				
12	Jan-91	5				
13	May-88	5				
14	Jan-92	3				
15	Jun-91	2				
16	Aug-88	2				
17	Jun-88	3				
18	Apr-91	3			1/18/94 - TARGET	
19	Nov-90	5				
20	May-89	3	3/90 *	136.3 - 7/92		
21	Jan-89	3				
22	Nov-92	6				
23	Nov-91	2				
24	Oct-92	5	11/92	130.7 - 2/93		
25	Mar-92	2				
26	Apr-90	4				
27	Aug-92	5			4/8/94 - TARGET	
28	Jul-87	2				
29	Apr-92	2				
30	Oct-92	2				
31	Jan-92	4				
32	Aug-92	3				
33	Nov-92	4				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
34	Dec-92	3				
35	Nov-91	3				
36	Jan-92	1				
37	Nov-92	3				
38	May-90	1				202.81 - 4/91 201.50 - 5/91 * 201.90 - 7/91
39	Jan-88	4			11/29/93-NDI	
40	Dec-90	3				
41	Jun-91	3	9/93	031.0 - 9/93 054.1 - 9/93		
42	Dec-92	2				
43	Jul-91	3				
44	Aug-92	3				
45	Jan-89	5				232.5 - 5/91
46	Feb-89	3	3/92			
47	Jun-92	3				
48	Sep-92	2				
49	Jul-92	2				
50	Aug-89	4				
51	Jul-92	3				
52	Dec-91	2				188.9 - 7/91
53	Feb-92	2				
54	Jan-93	3				
55	Apr-91	5				
56	Nov-92	2				
57	Mar-92	4				
58	Apr-91	4				
59	Sep-92	5				
60	Mar-90	4				
61	Jan-93	3				
62	Feb-92	3			2/16/94 - TARGET	
63	Mar-92	2				
64	Jun-92	6				
65	Oct-89	1			3/29/94 - TARGET	
66	Sep-92	5				
67	Mar-91	5		136.3 - 5/92		

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
68	Sep-92	2				
69	Sep-91	3				
70	Sep-90	5				
71	Dec-92	3				
72	Sep-92	5				
73	Jul-92	3				
74	Sep-92	5				
75	Jan-89	5	5/92 *		11/22/93 - TARGET	
76	Jul-91	2				
77	Dec-92	3				
78	Apr-89	5		031.8 - 9/93	10/22/93 - TARGET	
79	Jan-90	4				
80	Dec-91	1				
81	Mar-92	5				
82	May-92	2				
83	Oct-90	5				
84	Oct-92	1				
85	Nov-92	2				
86	Jan-93	4				
87	Jun-91	5				
88	Jan-93	2				
89	Jul-88	5				
90	Sep-89	2				
91	Apr-89	2				
92	Feb-92	5				
93	Jun-92	6				
94	Sep-92	5				
95	Aug-90	5				
96	Jun-87					
97	Dec-91	2				
98	Jan-93	1				
99	Dec-92	5				
100	Dec-91	3				
101	Sep-92	4				
102	Mar-92	5				
103	Jan-92	2				
104	Sep-91	5				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
105	Jul-92	2				
106	Jun-92	3				
107	Jan-92	5		136.3 - 4/93 031.8 - 12/93 078.5 - 1/94		
108	May-92	2				
109	Jul-92	3				
110	Jan-89	3				
111	Oct-92	3				
112	Nov-90	2				
113	Jan-93	5				
114	Jun-92					
115	Dec-92	5	7/93	130.8 - 7/93 078.5 - 7/93		
116	Nov-92	3				
117	Feb-91	3				
118	Aug-92	5				
119	Aug-92	3				
120	Sep-91	5				
121	Nov-90	1				
122	Jun-91	2	12/91	136.3 - 3/92		
123	Jun-92	5				
124	Oct-92	3				
125	May-87	3				
126	Feb-92	1				
127	Oct-90	2				
128	Feb-92	4				
129	Aug-92	5			3/2/93 - TARGET	
130	Jan-92	2			12/29/92 - TARGET	
131	Nov-92	3				
132	Jun-91	2				
133	Aug-92	5				
134	Jan-93	3				
135	Jan-93	3				
136	Apr-92	1				
137	Mar-91	2				
138	Jan-91	5		031.9 - 9/93	1/17/94 - TARGET	

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
138				078.5 - 12/93		
138				031.8 - 12/93		
139	Sep-88	6			8/14/93 - TARGET	
140	Feb-91	2				
141	Oct-92	5				
142	Mar-92	2				
143	Aug-91	5				
144	Jul-92	5				
145	Dec-89	5			2/8/94 - FOLDER	
146	Sep-91	2				
147	Dec-85					
148	Jul-92	4				
149	Apr-88	2				
150	Nov-92	5				
151	Oct-89	5				
152	Oct-92	3				
153	Mar-92	3				
154	Aug-92	3				
155	Sep-91	5			6/7/94 - TARGET	
156	Jun-91	4				
157	Apr-90	2				
158	May-91	2				
159	Jul-89	4				
160	Jun-88	5				
161	Mar-92	3				
162	Dec-92	2				
163	Mar-91	3				
164	Jul-91	2				
165	Jul-91	5				
166	Jul-90	5				
167	Feb-92	1				
168	Apr-87	2				
169	Oct-92	5				
170	Mar-90	3				
171	Oct-92	5				
172	Oct-92	3				
173	Feb-92	3				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
174	Feb-89	5				
175	Aug-91	4				
176	Nov-89	4		136.3 - 10/93		
177	Jul-88	2				
178	Mar-92	2				
179	Oct-92	4				
180	Aug-92	5		031.9 - 2/93 078.5 - 2/93 * 031.8 - 4/93	10/11/93 - TARGET	
181	Nov-87	2				
182	Mar-92	3				
183	May-91	3	5/93	136.3 - 10/93 031.0 - 11/93	12/4/93 - TARGET	
184	Aug-90	5			5/2/94 - TARGET	
185	May-92	2				
186	Jan-93	2				
187	Aug-87	3				
188	Jul-91	2				
189	Nov-92	3				
190	Jun-92	3				
191	Jan-91	2				
192	Jun-92	2				
193	Aug-90	5				
194	Jan-89	5				
195	Nov-89	5				
196	Oct-92	5				
197	Apr-92	3				
198	Mar-92	3				
199	Nov-88	3		130.0 - 4/93 *		
200	Jul-91	5				
201	Mar-91	5		136.3 - 5/93		
202	Jan-92	5				
203	May-92	5				
204	Feb-92	2				
205	Jan-93	3				
206	Jan-92	2				
207	Feb-91	3				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasia
208	May-92	6				
209	Sep-88	2		054.9 - 3/92* 136.3 - 5/92 *		
210	Jun-90	2				
211	Jun-92	2				
212	Feb-92	2				
213	Aug-87	1				
214	Nov-92	3				
215	Jun-91	6				
216	Feb-92	3				
217	Jul-91	5				
218	Nov-92					
219	Oct-87	3	6/90 *	136.3 - 12/87 *		
220	Oct-87					
221	Dec-92	2				
222	Aug-92	2				
223	Mar-92	5				
224	Oct-91	3				
225	Oct-91	5				
226	Oct-88	5				
227	Feb-92	6				
228	Jan-93	1				
229	Aug-92	3				
230	Dec-91	1				
231	Jan-92	5				
232	May-91	3				
233	Sep-92	2				
234	Sep-92	2				
235	Jul-90	5				
236	May-92	2				
237	May-92	6				
238	Apr-89	2				
239	Oct-90	2				
240	Mar-91	5				
241	Apr-92	5				
242	Oct-91	5	5/92 *	136.3 - 5/92 031.0 - 2/93 *	1/3/94 - TARGET	

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
242				031.8 - 10/93 *		
243	Jul-92	6				
244	Jun-92	2			11/19/93 - TARGET	
245	Jun-91	2				
246	Nov-92	6				
247	Jan-92	5	12/92	007.2 - 12/92 *		
248	Apr-91	2				
249	Sep-87	2				
250	Nov-89	3				
251	Jan-93	4			12/14/93 - TARGET	
252	Dec-89	3				
253	Jan-90	2				
254	Jun-92	5			5/20/94 - TARGET	
255	Feb-91					
256	Sep-93					
257	Mar-90	4				
258	May-92	4				
259	Nov-92	3				
260	Jul-87	3				
261	Jan-93	3				
262	Feb-92	6		136.3 - 10/93	10/19/93 - TARGET	
263	May-86	2		136.3 - 7/92		
264	Nov-91	3			6/16/94 - TARGET	
265	Feb-88	6	1/92	054.1 - 11/91		
266	Aug-90	2	3/93	136.3 - 3/93		
267	Dec-92	3				
268	Dec-89	5				
269	Feb-92	4				
270	May-92	6	10/92 *	054.1 - 10/92 *	2/22/93 - TARGET	
270				031.0 - 12/92		
270				054.19 - 1/93		
271	Feb-92	3				
272	Dec-92	6				202.80 - 11/91
273	May-92	5				
274	Jun-92	3				214.1 - 4/91
275	Oct-89	5				
276	Jan-93	3				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
277	May-90	5	8/91 *			
278	Oct-90	5				
279	Jun-92	6		078.5 - 6/93	8/8/93 - TARGET	
280	Mar-89	5				
281	Sep-92	2				
282	Aug-91	2				
283	Dec-89	4				
284	Jun-89	5				
285	Feb-92	6				
286	Jul-92	3				
287	Sep-92	3				
288	Jun-91	2				
289	Nov-91	2		054.9 - 2/93		
290	Jan-89	2				
291	Jan-92	5				
292	May-92	5	7/93			216.6 - 6/90
293	Dec-91	5			3/2/94 - TARGET	
294	May-90	6		054.1 - 6/90 *	8/16/93 - TARGET	176.9 - 7/92
294				136.3 - 10/91 *		176.1 - 12/92
294				078.5 - 1/92 *		
294				054.9 - 7/92		
294				031.9 - 12/92		
294				054.19 - 12/92		
294				031.8 - 5/93		
294				031.0 - 6/93 *		
295	Jul-92	5				
296	Mar-92	2				
297	Mar-91	2				
298	Jun-92	5			2/10/94 - TARGET	
299	Jun-88	2				
300	Oct-92	3				
301	Sep-92	3				
302	Dec-90	3		136.3 - 12/93		
303	Apr-92	6			2/1/93-NDI	
304	Dec-91	4				
305	Mar-89	5	5/93	031.0 - 5/93 *	11/28/93 - TARGET	202.88 - 5/92
305				078.5 - 5/93 *		

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
306	Jan-93	3				
307	Aug-88	5				
308	Oct-88	5		136.3 - 10/91 078.5 - 5/92 *	1/5/94 - TARGET	
309	Aug-90	5				
310	Oct-92	5				
311	Apr-91	5			5/25/94 - TARGET	
312	Mar-92	6				
313	Dec-90	3				
314	Jul-90	2				
315	Jan-86					
316	Dec-92	2				
317	Nov-92	3		136.3 - 1/94	6/4/94 - TARGET	
318	May-90	3				
319	May-90	4				
320	Aug-91	5	9/93 *	054.9 - 2/93	3/27/94 - TARGET	
321	May-92	4				
322	Jul-92	3				
323	Jan-91	2	5/93	136.3 - 5/93	1/24/94 - TARGET	
324	Jun-87					
325	Mar-90	6		130.7 - 2/91		
326	Dec-91	3				
327	Jun-92	3				
328	Jul-89	1				
329	Aug-92	2				
330	Dec-90	1				
331	Apr-90	2				
332	Oct-92	2				
333	Jan-93	5				
334	Apr-89	2				
335	Apr-90	2				
336	Aug-92	3				
337	Jun-92	2				
338	Aug-92	2				
339	Jan-89	5	10/93			
340	Aug-88	3			6/27/94 - TARGET	
341	Oct-91	5				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
342	Mar-93					
343	Sep-91	3	10/93 *	136.3 - 10/93 130.2 - 10/93 130.7 - 10/93	5/9/94 - TARGET	
344	Aug-86	4	11/89 *	136.3 - 11/89		
345	Jun-91	3				
346	Nov-88	2				
347	Apr-91	4				
348	Oct-92	3				
349	Aug-91	6				
350	Dec-91	1				
351	May-92	4		031.8 - 11/93		
352	Aug-92	5				
353	Dec-85	6				
354	Dec-92	3				
355	Sep-92	6				
356	Oct-91	3				
357	May-89	2		054.13 - 1/92		
358	May-92	3			4/19/93 - TARGET	
359	Jul-91	3			6/13/94 - TARGET	
360	Oct-90	5		136.3 - 1/94		
361	May-92	2				
362	Feb-88	3		117.5 - 1/94		
363	Aug-90	5				
364	May-92	3			6/23/94 - TARGET	
365	Mar-91	3				
366	Nov-91	2				
367	Apr-92	2				
368	Sep-89	3				
369	Dec-91	1				
370	Jan-93	2				
371	Jan-93	5		136.3 - 8/93	3/3/94 - TARGET	
372	Oct-92	2				
373	Aug-92	5				
374	Jan-93	2				
375	Dec-91	2				
376	Sep-92	3				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
377	Dec-92	2				
378	Jan-90	4				
379	Jul-91	2				
380	Oct-92	3				
381	Nov-92	3				
382	Oct-92	2				
383	Sep-90					
384	Dec-91	4	4/93	136.3 - 12/92 *		
384				054.1 - 12/92		
385	Feb-87	2				
386	Nov-92	2				
387	Jul-92	3				
388	Sep-92	2				
389	Sep-91	3				
390	Mar-87	1		117.5 - 2/91 *		
391	Jan-93	3				
392	Oct-90	5				
393	Aug-87	3				
394	Jun-92	4				
395	Jul-92	6				
396	Apr-93					
397	Mar-92	5				
398	Sep-88	1				
399	Jul-90	4	11/92			
400	Mar-92	5				
401	Nov-92	2				
402	Oct-91	5				
403	Dec-92	2				
404	Aug-89	2				
405	Aug-89	2				
406	Aug-89	5	9/93 *	136.3 - 10/91	1/2/94 - TARGET	
406				031.0 - 1/94		
407	Dec-92	3				
408	Sep-87	1				
409	Jun-91	4				
410	Apr-92	2				
411	Nov-89	3				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
412	Jan-93	1				
413	Aug-92	1				
414	Jul-92	1				
415	Apr-92	2				
416	Mar-93				12/17/93 - TARGET	
417	Jan-93	3				
418	Jun-92	5				
419	Nov-91	2				
420	Apr-88	3				
421	Jan-89	6				
422	Jul-90	2	10/92	054.0 - 9/92 136.3 - 6/93		
423	Oct-92	3				
424	May-92	3			2/20/94 - TARGET	
425	Jun-92	4				
426	Feb-90	1				
427	Jun-92	3				
428	Oct-92	3				
429	Mar-91	4				
430	Mar-89	2				
431	Aug-89	1				217 - 11/90 *
432	Oct-88	5				
433	May-92	3				
434	Sep-91	5				
435	Sep-92	2				
436	Apr-91	5				
437	Apr-89	4				
438	Oct-92	3				
439	Jul-89	5				
440	Jan-93	2				
441	Mar-90	5		031.0 - 7/93		
442	Mar-92	2				
443	May-89	3		136.3 - 2/94		
444	Jan-89	1				
445	Jun-89	2				
446	Dec-88	5				
447	Dec-89	3				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
448	Dec-90	2				
449	Sep-92	5				
450	Feb-89	5				
451	Aug-92	4				
452	Dec-92	5				
453	Oct-89	2				
454	Sep-92	1				
455	Nov-92	5				
456	Oct-90	2				
457	Aug-91	3				
458	Sep-89	2				
459	Dec-91	4				
460	Jan-93	5				
461	Sep-92	4			1/21/94 - TARGET	
462	Nov-92	1				
463	Apr-90	5				
464	Apr-92	3				
465	Apr-91	3			12/31/93 - TARGET	
466	Jan-92	5				
467	Nov-92	3				
468	Apr-91	5		117.5 - 9/93 054.1 - 9/93		
468						
469	Sep-92	5				
470	Feb-92	2				
471	Jun-89	4				
472	May-92	1				
473	Apr-89	1				
474	Oct-90	4				
475	Jul-92	5		136.3 - 4/93 * 031.8 - 10/93		
475						
476	Apr-92	1				
477	Oct-91	6				
478	Jul-88	2	12/91	136.3 - 7/91 078.5 12/91 *	12/31/93 - TARGET	
478						
479	Aug-88	5				
480	Jan-92	5				
481	Jun-92	6		136.3 - 1/93		

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
482	Apr-90	2				
483	Jul-90	3	10/91 *	054.19 - 5/93 136.3 - 2/94		
484	Jan-93	5				
485	Oct-92	3				
486	Jun-91	4				
487	Feb-92	3		117.5 - 12/92 *		
488	Feb-91	3				
489	Oct-90	2				
490	Jul-91	5				
491	Nov-87	3				
492	May-92	2				
493	May-92	4				
494	Oct-92	2				
495	Mar-92	2				
496	Mar-91	5				
497	Apr-91	5				
498	Nov-89	5				
499	Dec-89	5	5/93	136.3 - 5/93	3/31/94 - TARGET	
500	Sep-90	4	10/93	018.0 - 10/93		
501	Mar-89	4				
502	Jun-92	2				
503	May-92	3				
504	Apr-91	5			10/8/93 - TARGET	
505	Nov-92	3				
506	Jan-92	5				
507	Jun-90	6				
508	Nov-92	4				
509	Apr-91	4				
510	Feb-91	2				
511	May-89	1				
512	Sep-89	5			2/12/94 - TARGET	
513	Sep-92	5				
514	Jun-90	4				
515	Jan-91	5				
516	Sep-92	4			4/25/94 - FOLDER	
517	Mar-91	5				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
518	Jul-90	5				
519	Dec-92	3				173.7 - 8/92
519						173.5 - 8/92
520	May-90	2				
521	Mar-91	3				
522	Jul-92	4				
523	Dec-87	5				
524	Jul-92	2				
525	Apr-91	2				
526	Oct-92	2				
527	Oct-92	2		031.0 - 8/93	3/22/94 - TARGET	
528	Jan-87	1				
529	Nov-92	2				
530	Mar-87	2				
531	Jun-89	5	11/92 *	031.0 - 12/93		
532	Jul-92	3				
533	Jan-92	5				
534	Apr-91	5				
535	Nov-89	5				
536	Sep-90	2			3/4/94 - TARGET	176.9 - 6*92
537	Feb-91	3				
538	Jan-89	1				
539	Mar-89	2				
540	Jul-89	5	1/91	136.3 - 1/91		
541	May-91	3				
542	Aug-88	2		136.3 - 3/89		
543	Apr-93					
544	Jan-89	2				
545	Sep-89	2				
546	Sep-90	5				
547	Aug-87	5			3/25/94 - TARGET	
548	Dec-92	5				
549	Jun-89	5	7/93	054.8 - 7/93	1/29/94 - TARGET	
550	Jun-92	4				
551	Apr-92	4				
552	May-90	6				
553	Feb-91	1				

CASE	Last seen	Stage	Thrush (5) Date	OI ICDA (6)-Date	Death (7) Date-Source	Neoplasm
554	Jun-89	5				
555	May-92	5				
556	Feb-92	3				
557	Jan-93	3				
558	Aug-91	3				
559	Apr-91	2				
560	Jan-93	5				
561	Nov-92	3				
562	Jan-93	5				
563	Jan-93	4			5/26/94 - TARGET	
564	Mar-91	1				
565	Oct-91	2	3/92			
566	Feb-92	3				
567	Oct-90	5				
568	Nov-87	1			2/8/94 - TARGET	
569	Feb-91	2		136.3 - 12/93	2/2/94 - TARGET	